

DINION IP bullet 4000

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HD Onvif

The 720p infrared bullet from Bosch is a professional surveillance camera that provides high quality HD images for demanding security and surveillance network requirements.

This robust bullet camera is a true day/night camera offering excellent performance day or night.

Functions

iDNR reduces bandwidth and storage requirements

The camera uses intelligent Dynamic Noise Reduction (iDNR) which actively analyzes the contents of a scene and reduces noise artifacts accordingly.

The low-noise image and the efficient H.264 compression technology provide clear images while reducing bandwidth and storage by up to 30% compared to other H.264 cameras. This results in reduced-bandwidth streams that still retain a high image quality and smooth motion. The camera provides the most usable image possible by cleverly optimizing the detail-to-bandwidth ratio.

Area-based encoding is another feature which reduces bandwidth. Compression parameters for up to eight user-definable regions can be set. This allows uninteresting regions to be highly compressed, leaving more bandwidth for important parts of the scene.



- ▶ Outdoor IP bullet camera with varifocal lens
- ▶ Built-in IR illuminator with 25 m (82 ft) viewing distance
- ▶ 720p resolution for sharp images
- ▶ Fully configurable quad streaming
- ▶ Regions of interest and E-PTZ

The average typical optimized bandwidth in kbytes/s for various image rates is shown in the table:

IPS	720p	480p
30	1200	600
15	955	478
12	877	438
5	568	284
2	245	122

Built-in IR illuminator

The built-in infrared LEDs provides quality night time monitoring with 25 m (82 ft) viewing distance in darkness.

Outdoor bullet camera with varifocal lens

The robust aluminum housing provides high installation flexibility. The camera resists both water and dust ingress in tough environments and is rated to IP66 (NEMA Type 4X) standards. The 3 to 10 mm varifocal lens allows you to choose the coverage area to best suit your application.

Multiple streams

The innovative multi-streaming feature delivers various H.264 streams together with an M-JPEG stream. These streams facilitate bandwidth-efficient viewing and recording as well as integration with third-party video management systems.

Regions of interest and E-PTZ

Regions of Interest (ROI) can be user defined. The remote E-PTZ (Electronic Pan, Tilt and Zoom) controls allow you to select specific areas of the parent image. These regions produce separate streams for remote viewing and recording. These streams, together with the main stream, allow the operator to separately monitor the most interesting part of a scene while still retaining situational awareness.

Two-way audio and audio alarm

Two-way audio allows the operator to communicate with visitors or intruders via an external audio line input and output. Audio detection can be used to generate an alarm if needed.

Tamper and motion detection

A wide range of configuration options is available for alarms signaling camera tampering. A built-in algorithm for detecting movement in the video can also be used for alarm signaling.

Cloud-based services

The camera supports time-based or alarm-based JPEG posting to four different accounts. These accounts can address FTP servers or cloud-based storage facilities (for example, Dropbox). Video clips or JPEG images can also be exported to these accounts.

Alarms can be set up to trigger an e-mail or SMS notification so you are always aware of abnormal events.

Easy installation

Power for the camera can be supplied via a Power-over-Ethernet compliant network cable connection. With this configuration, only a single cable connection is required to view, power, and control the camera. Using PoE makes installation easier and more cost-effective, as cameras do not require a local power source.

The camera can also be supplied with power from +12 VDC power supplies. To increase system reliability, the camera can be simultaneously connected to both PoE and +12 VDC supplies. Additionally, uninterruptible power supplies (UPS) can be used, which will allow continuous operation, even during a power failure. For trouble free network cabling, the cameras support Auto-MDIX.

True day/night switching

The camera incorporates mechanical filter technology for vivid daytime color and exceptional night-time imaging while maintaining sharp focus under all lighting conditions.

Access security

Password protection with three levels and 802.1x authentication is supported. To secure Web browser access, use HTTPS with a SSL certificate stored in the camera. The video and audio communication channels can be independently AES encrypted with 128-bit keys by installing the optional encryption site license.

Complete viewing software

There are many ways to access the camera's features: using a web browser, with the Bosch Video Management System, with the Bosch Recording System, with the free-of-charge Bosch Video Client, or with the video security mobile App.

The Bosch Video Client PC surveillance software offers a user-friendly interface to support easy installation and configuration. It also provides easy live viewing of multiple cameras, playback, forensic search and export.

Video security App

The Bosch video security mobile App has been developed to enable **Anywhere** access to HD surveillance images allowing you to view live images from any location. The App is designed to give you complete control of all your cameras, from panning and tilting to zoom and focus functions. It's like taking your control room with you.

This App, together with the separately available Bosch transcoder, will allow you to fully utilize our dynamic transcoding features so you can play back images even over low-bandwidth connections.

System integration

The camera conforms to the ONVIF (Open Network Video Interface Forum) Profile S specification. This guarantees interoperability between network video products regardless of manufacturer. For trouble-free network cabling, the camera supports Auto-MDIX which allows the use of straight or cross-over cables. Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

Certifications and approvals

Standards	
	IEC 62471
	EN 60950-1
	UL 60950-1
	UL 60950-22
	CAN/CSA-C22.2 NO. 60950-1
	CAN/CSA-C22.2 NO. 60950-22
	EN 50130-4
	EN 50130-5
	FCC Part15 Subpart B, Class B

	EMC directive 2004/108/EC
	EN 55022/24 class B
	VCCI J55022 V2 / V3
	AS/NZS CISPR 22 (equal to CISPR 22)
	ICES-003 class B
	EN 50121-4
	EN 50132-5-2; IEC 62676-2-3
Product certifications	CE, FCC, UL, cUL, C-tick, CB, VCCI
Ingress protection	IP66
Impact protection	IK08

Region	Certification
Europe	CE
USA	UL
	FCC
Canada	CSA

Technical specifications	
Power	
Input voltage	+12 VDC or Power-over-Ethernet (48 VDC nominal)
Power consumption	9.2W (max)
PoE	IEEE 802.3af (802.3at Type 1) Power level: Class 3

Video	
Sensor type	1/2.7-inch CMOS
Sensor pixels	1280 x 720
Sensitivity (3200 K, reflectivity 89%, 30IRE, F1.3)	0.24 lx 0.0 lx (IR)
Dynamic range	76 dB
True Day/Night	Auto, Color, Monochrome
Shutter speed	Automatic Electronic Shutter (AES) Fixed (1/30 [1/25] to 1/15000)
Video resolution	720p, 480p, 432p, 288p, 240p, 144p
Video compression	H.264 MP (Main Profile); M-JPEG
Max. frame rate	30 ips (M-JPEG frame rate can vary depending on system loading)
Video Settings	Video watermarking, Alarm mode stamping, Image mirror, Image flip, Contrast, Saturation, Brightness, White balance, Sharpness level, Contrast enhancement, Backlight

Compensation, Privacy Mask, Motion detection, Tamper alarm, Upright mode, Pixel counter

Night vision

Distance	25 m (82 ft)
LED	12 LED high efficiency array, 850 nm

Lens

Lens type	Varifocal 3 to 10 mm, DC Iris F1.3 - 360
Lens mount	Board mounted
Horizontal field of view	36° - 107°
Vertical field of view	20° - 57°

Connection

Analog video out (for installation only)	BNC connector (1 Vpp CVBS, NTSC)
Alarm input	Short or DC 5V activation
Relay out	Input rating Maximum 1 A 24 VAC/VDC

Audio

Audio input	Line in jack connector
Audio output	Line out jack connector
Audio communication	Two-way, full duplex
Audio compression	AAC, G.711, L16 (live and recording)

Software

Unit Configuration	Via web browser or Configuration Manager
Firmware update	Remotely programmable
Software viewer	Bosch Video Client

Network

Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, SNTP, SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS, SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, Digest Authentication.
Encryption	TLS 1.0, SSL, DES, 3DES, AES (optional)
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Ethernet connector	RJ45
Connectivity	ONVIF Profile S, Auto-MDIX

Mechanical

3-axis adjustment (pan/tilt/rotation)	350° / 100° / 350°
Dimensions (H x W x D)	103 x 100 x 252 mm (4.06 x 3.94 x 9.92 in)
Weight	1.6 kg (3.53 lb) approx.
Color	Pantone 877c

Environmental

Operating temperature	-30 °C to +50 °C (-22 °F to +122 °F)
Storage temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Humidity	20% to 90% relative humidity (non condensing)

Ordering information**DINION IP bullet 4000 HD**

Robust infrared IP bullet camera for demanding HD surveillance. IP66; PoE; day/night function; iDNR; ROI; H.264 quad-streaming; free viewing Apps; cloud services; tamper/motion detection; 720p

Order number **NTI-40012-V3**

Software Options**BVIP AES 128 Bit Encryption**

Site licence for BVIP AES 128-bit encryption. Enables encrypted communication between BVIP devices and management stations

Order number **MVS-FENC-AES**

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